

### ABSTRACT

A rotor assembly for an alternator having a rotor shaft, a field coil wound on an insulative bobbin, and pair of poles mounted on the shaft around the field coil and bobbin. Each of the poles includes a pole core and a plurality of pole fingers. The plurality of pole fingers each have an inner surface facing the field coil. The plurality of pole fingers and their inner surface is structured to increase the electric output power of the alternator while decreasing the weight and volume of the alternator, thereby increasing the alternator maximum speed and reducing the deflection of the pole fingers.